



Figure 1A.

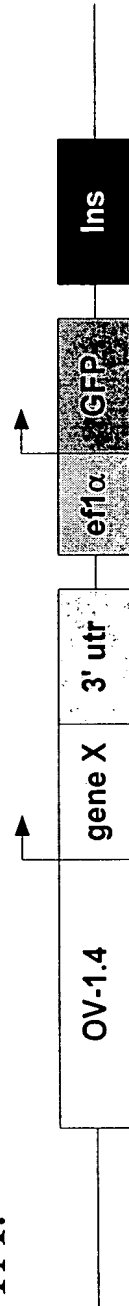
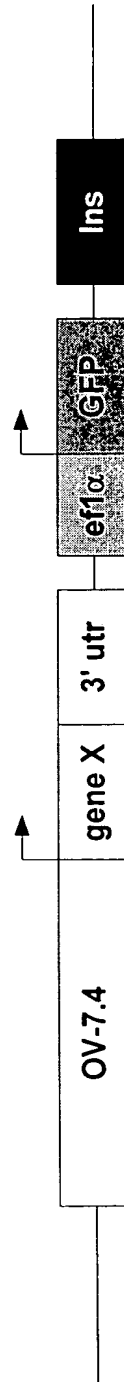


Figure 1B.



OV-1.4 & -7.4: ovalbumin -1.4 and -7.4 kb promoters
 gene X: a gene or cDNA encoding an exogenous protein
 3' utr: 3' untranslated region containing polyadenylation site
 ef-1 α : translation elongation factor ef-1 α promoter
 GFP: humanized green fluorescent protein gene
 Ins: 1.2 kb insulator element

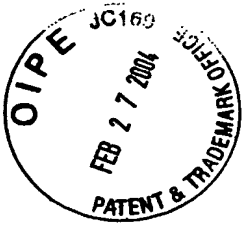
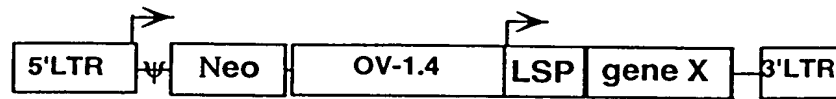


Figure 2A.



➤ transcription start site

5' & 3' LTR: ALV long terminal repeats

Ψ virus packaging signal

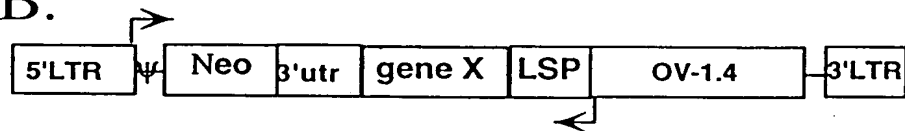
Neo: neomycin-resistance gene

OV-1.4: ovalbumin -1.4 kb promoter

LSP: lysozyme signal peptide

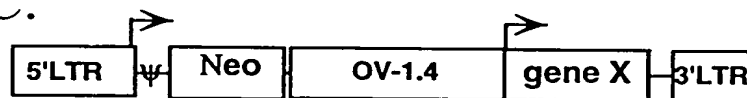
gene X: gene or cDNA encoding an exogenous protein

Figure 2B.



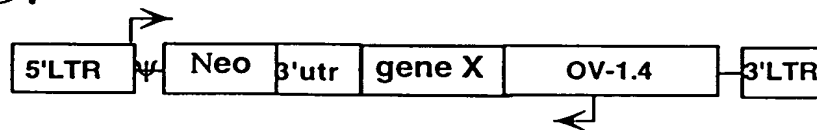
3'utr: 3' untranslated region containing polyadenylation site

Figure 2C.



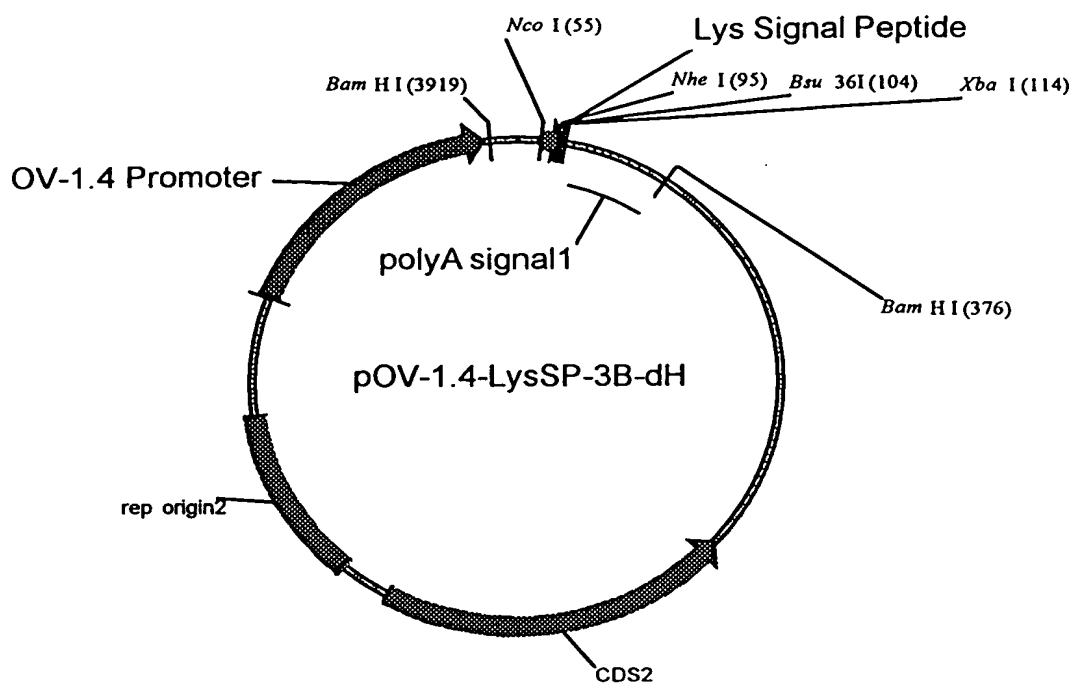
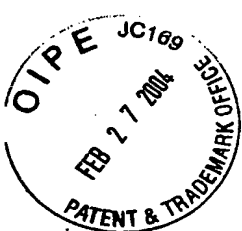
Same vector as A lacking LSP element

Figure 2D.



Same vector as B lacking LSP element

Figure 2E.

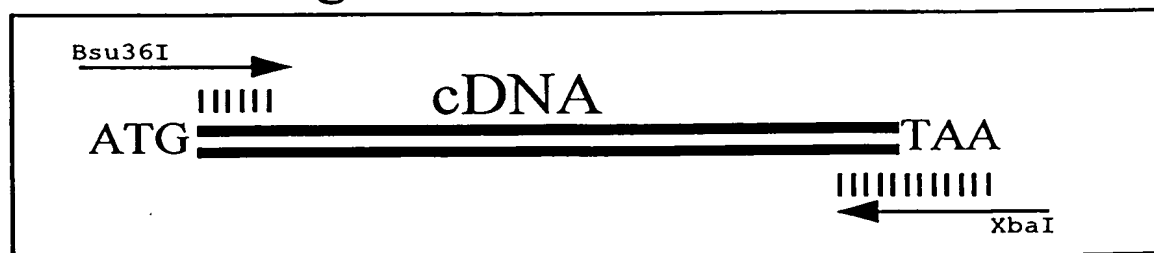


Lysozyme Signal Peptide

	M	G	S	L	L	I	L	V	L	C	F	L	P	L	A
	NcoI												NheI		
51	CCACCATGGG	GTCTTTGCTA	ATCTTGGTGC	TTTGCTTCCT	GCCGCTAGCT										
	GGTGGTACCC	CAGAAACGAT	TAGAACCACG	AAACGAAGGA	CGGCGATCGA										
	A	L	G												
	Bsu36I			XbaI											
101	GCCTTAGGGC	CCTCTAGAG													
	CGGAATCCCG	GGAGATCTC													

▼ : Signal peptide cleavage site.

PCR Cloning of cDNA



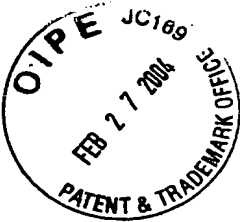
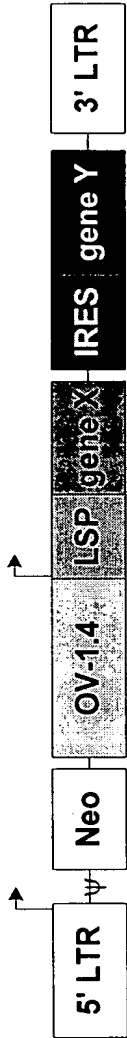


Figure 2F.



transcription start site

5' & 3' LTR: ALV long terminal repeats

ψ virus packaging signal

Neo: neomycin-resistance gene

OV-1.4: ovalbumin -1.4 kb promoter

LSP: lysozyme signal peptide

gene X: gene or cDNA encoding an exogenous protein

gene Y: gene or cDNA encoding an exogenous protein

IRES: internal ribosome entry site



Figure 3A.

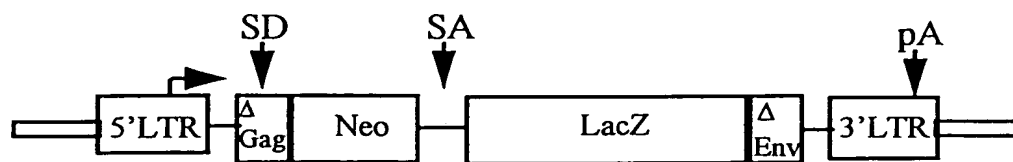


Figure 3B.

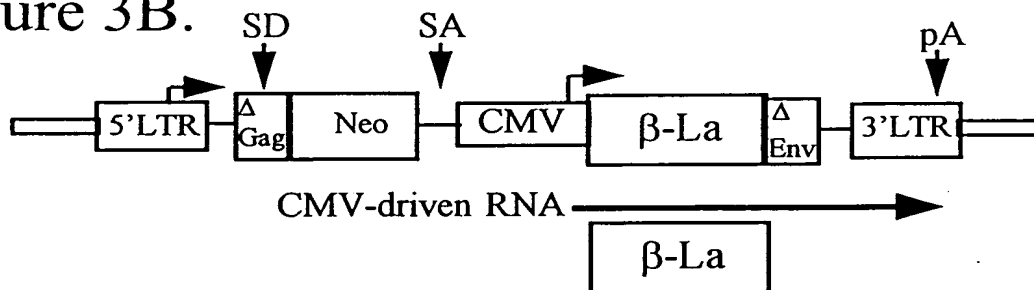


Figure 4.

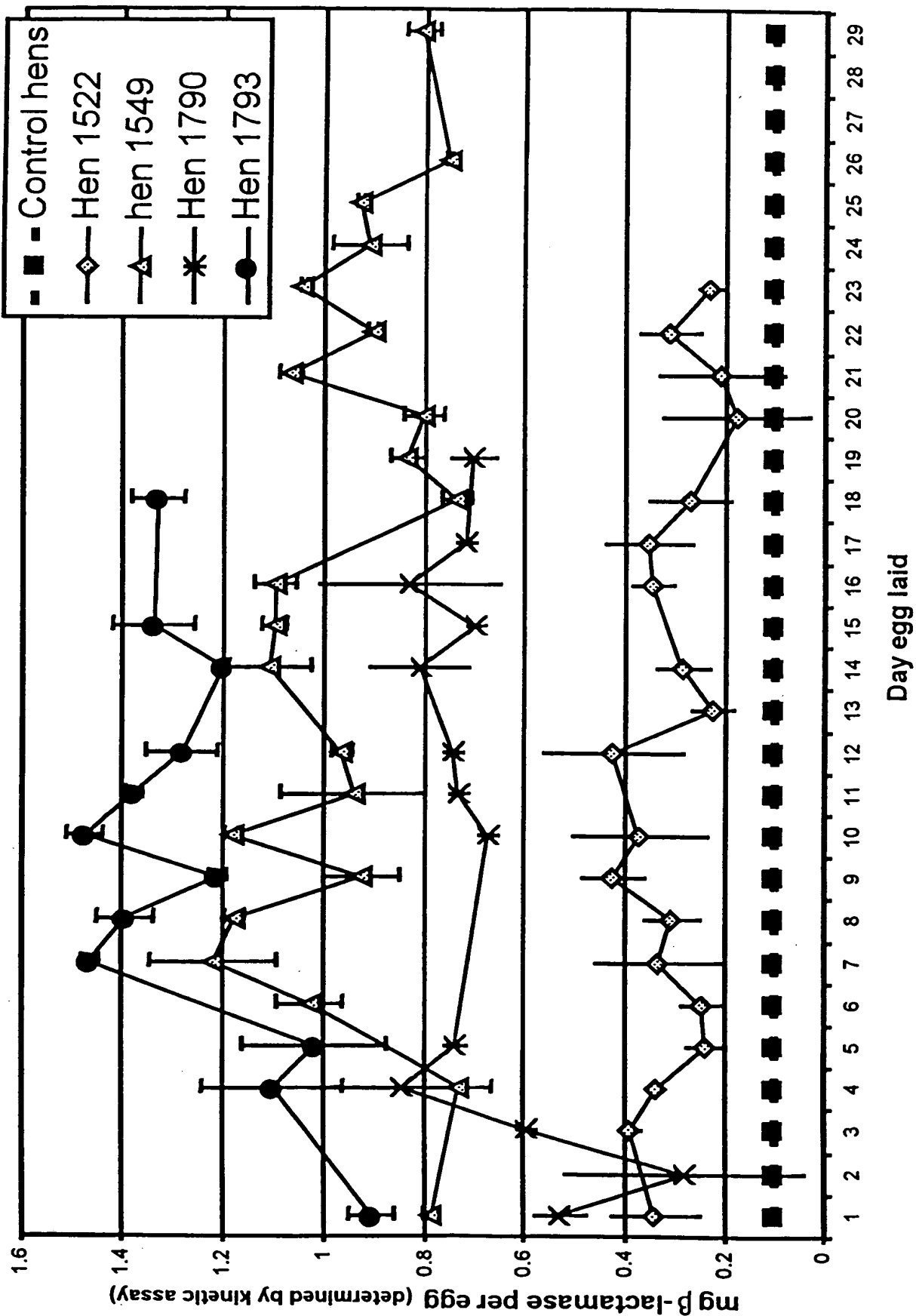


Figure 5.

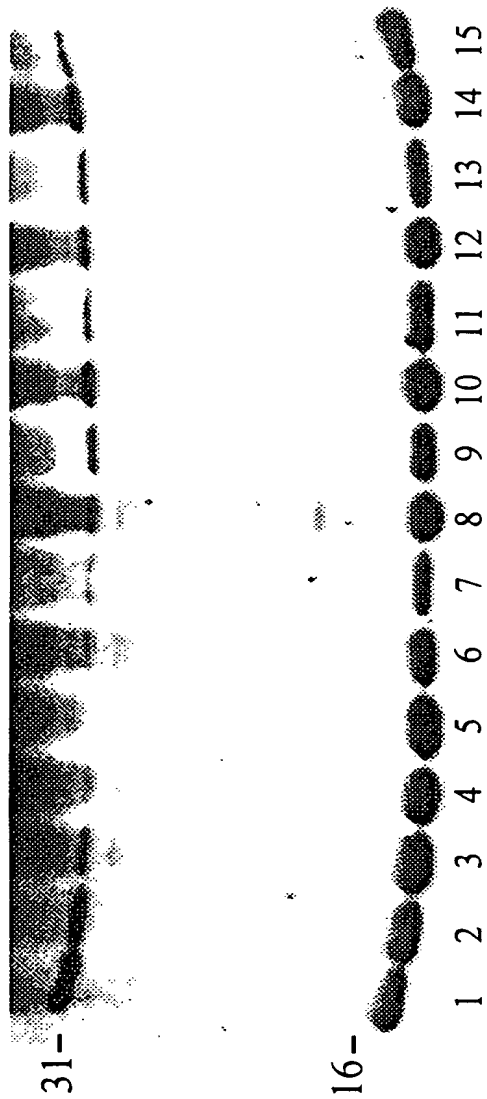


Figure 6A.

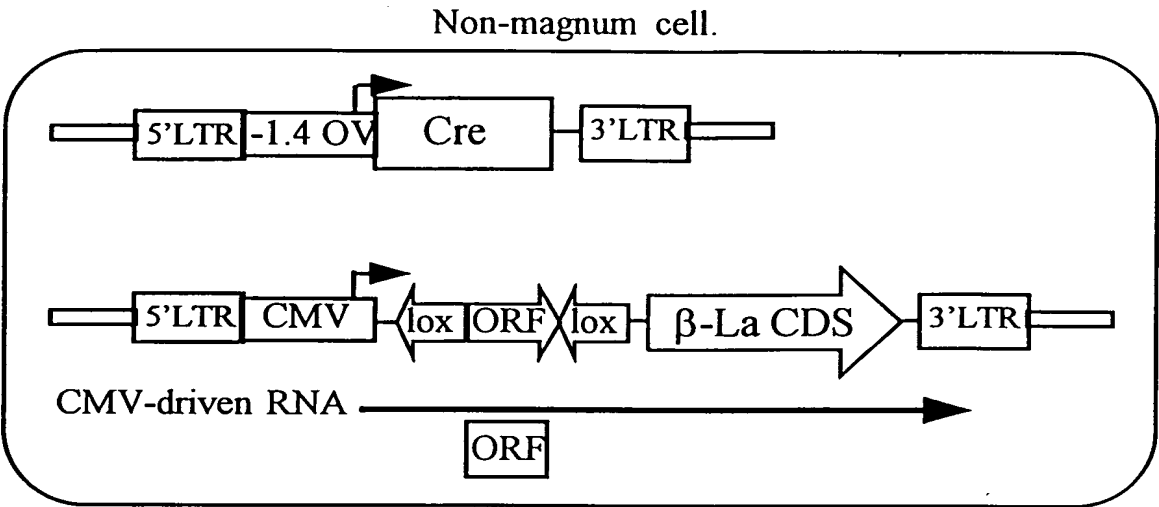


Figure 6B.

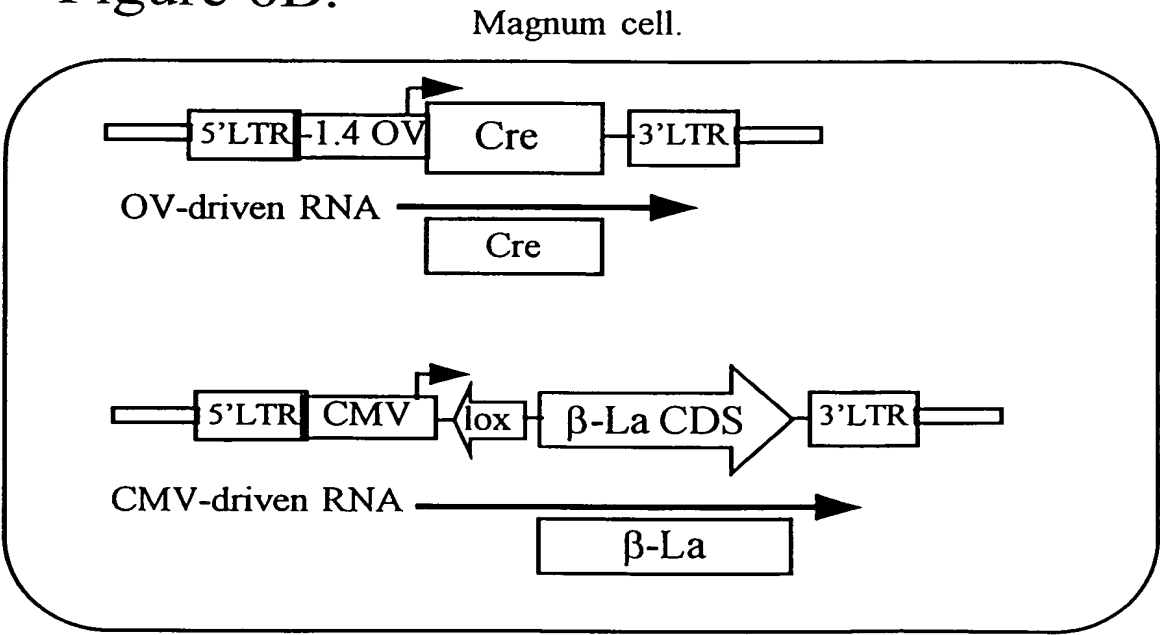


Figure 7.

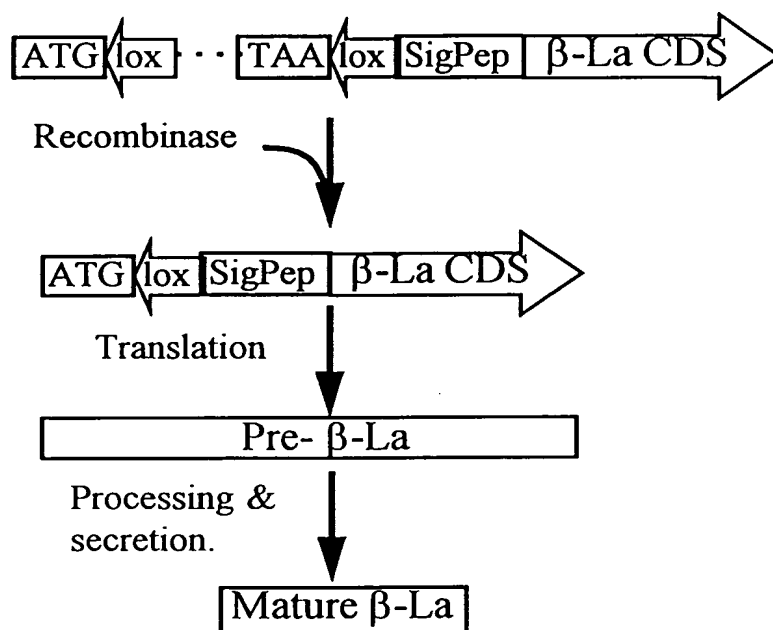


Figure 8A.

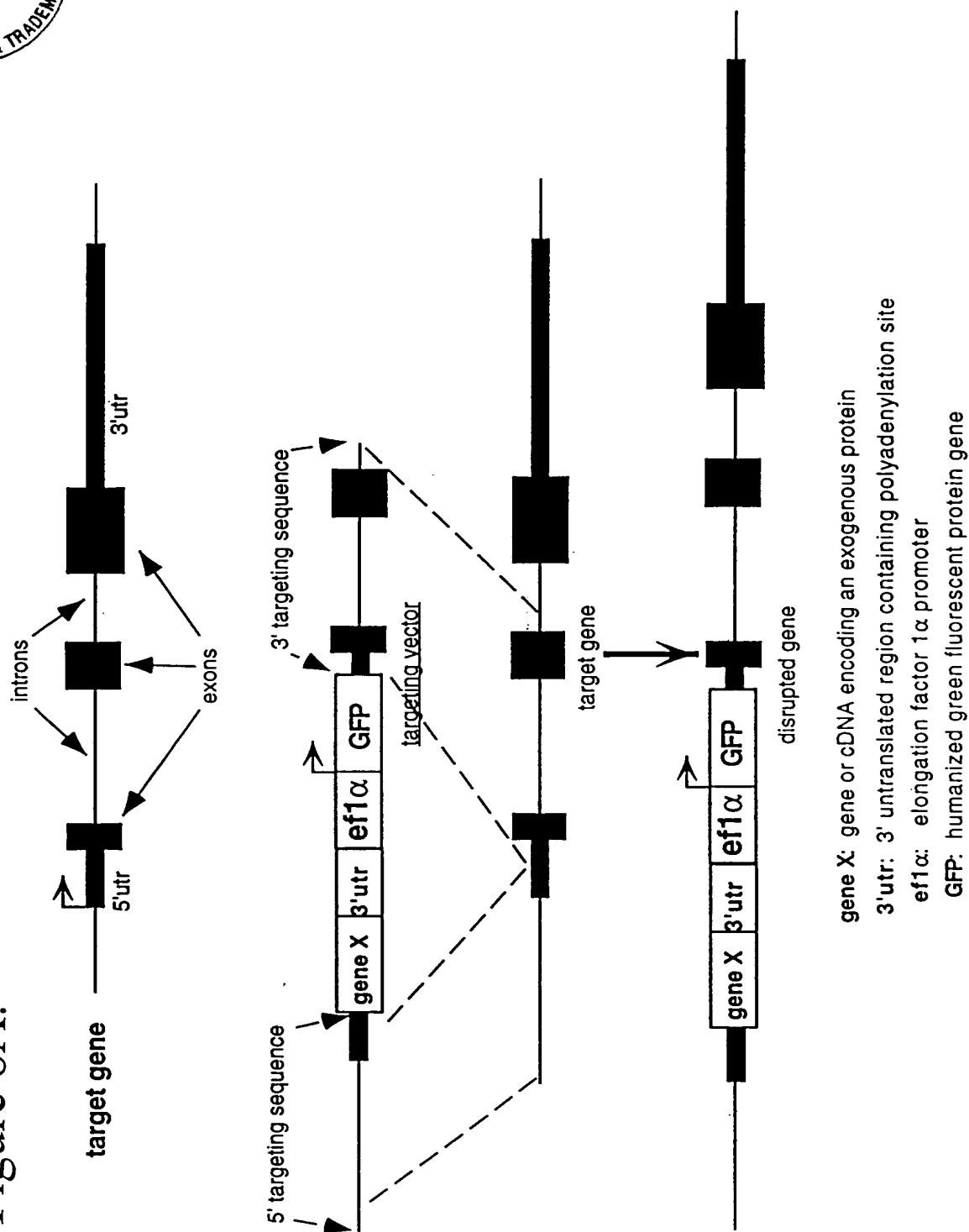


Figure 8B.

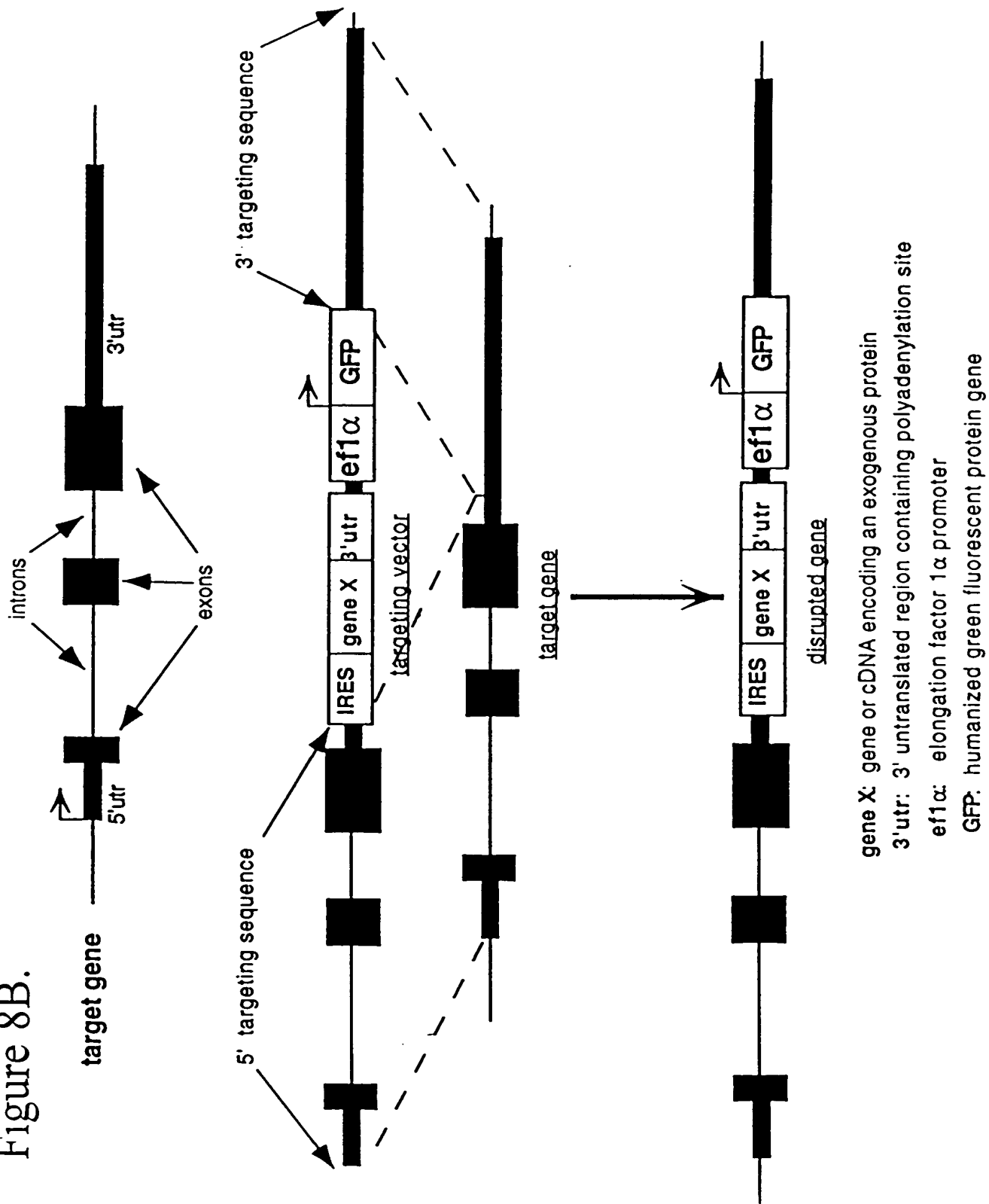
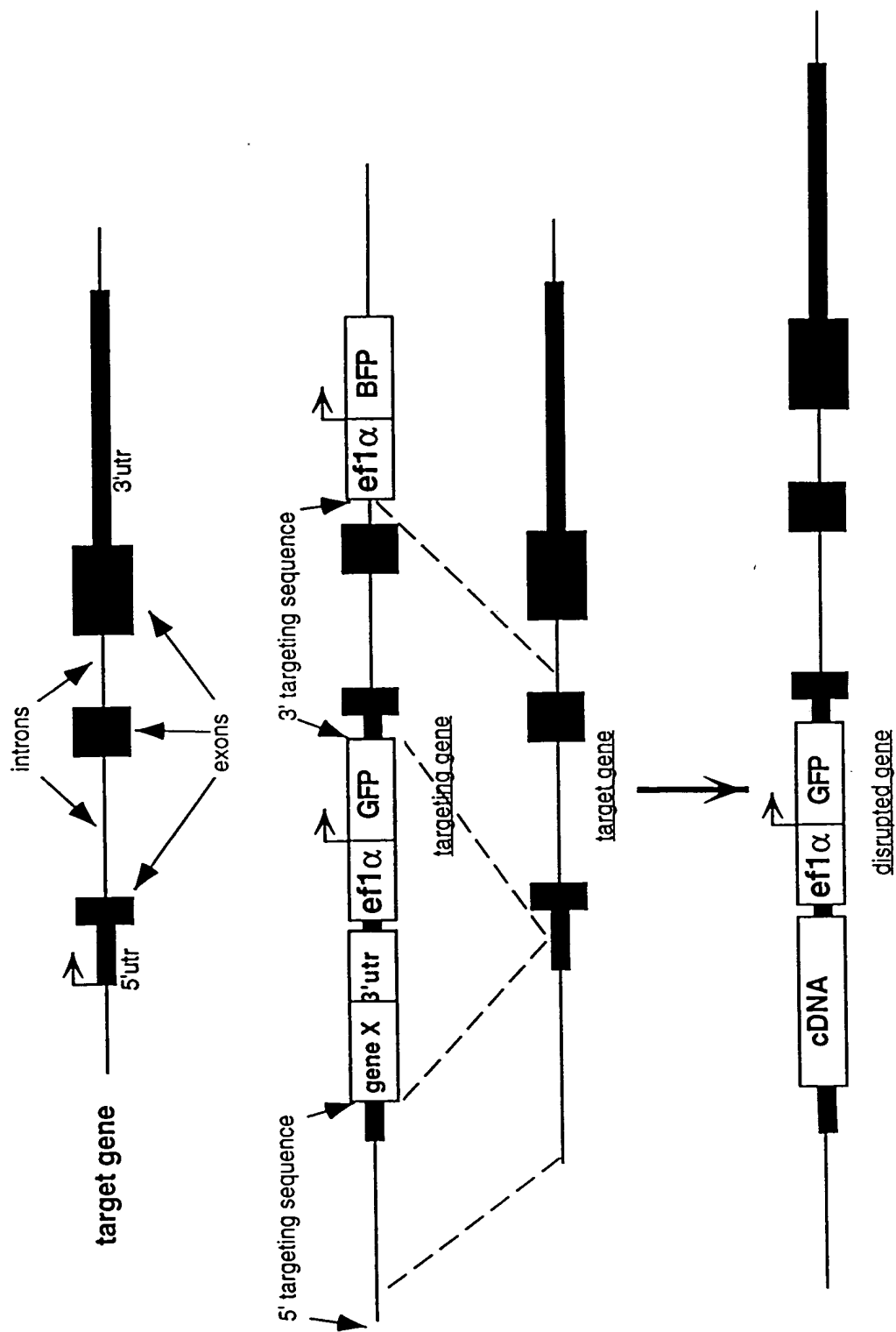


Figure 9.



BFP: gene encoding blue fluorescent protein